



SEQUENCE LISTING

<110> NG, LEONG

<120> BODILY FLUID MARKERS OF TISSUE HYPOXIA

<130> ISA-012.01

<140> 10/719,695

<141> 2003-11-21

<150> GB 0322390.6

<151> 2003-09-24

<150> GB 0227179.9

<151> 2002-11-21

<160> 3

<170> PatentIn Ver. 3.2

<210> 1

<211> 999

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Asp Lys Val Arg Arg Gln Arg Pro Arg Arg Arg Val Cys Trp
1 5 10 15

Ala Leu Val Ala Val Leu Leu Ala Asp Leu Leu Ala Leu Ser Asp Thr
20 25 30

Leu Ala Val Met Ser Val Asp Leu Gly Ser Glu Ser Met Lys Val Ala
35 40 45

Ile Val Lys Pro Gly Val Pro Met Glu Ile Val Leu Asn Lys Glu Ser
50 55 60

Arg Arg Lys Thr Pro Val Ile Val Thr Leu Lys Glu Asn Glu Arg Phe
65 70 75 80

Phe Gly Asp Ser Ala Ala Ser Met Ala Ile Lys Asn Pro Lys Ala Thr
85 90 95

Leu Arg Tyr Phe Gln His Leu Leu Gly Lys Gln Ala Asp Asn Pro His
100 105 110

Val Ala Leu Tyr Gln Ala Arg Phe Pro Glu His Glu Leu Thr Phe Asp
115 120 125

Pro Gln Arg Gln Thr Val His Phe Gln Ile Ser Ser Gln Leu Gln Phe
130 135 140

Ser Pro Glu Glu Val Leu Gly Met Val Leu Asn Tyr Ser Arg Ser Leu
145 150 155 160

Ala	Glu	Asp	Phe	Ala	Glu	Gln	Pro	Ile	Lys	Asp	Ala	Val	Ile	Thr	Val	165	170	175
Pro	Val	Phe	Phe	Asn	Gln	Ala	Glu	Arg	Arg	Ala	Val	Leu	Gln	Ala	Ala	180	185	190
Arg	Met	Ala	Gly	Leu	Lys	Val	Leu	Gln	Leu	Ile	Asn	Asp	Asn	Thr	Ala	195	200	205
Thr	Ala	Leu	Ser	Tyr	Gly	Val	Phe	Arg	Arg	Lys	Asp	Ile	Asn	Thr	Thr	210	215	220
Ala	Gln	Asn	Ile	Met	Phe	Tyr	Asp	Met	Gly	Ser	Gly	Ser	Thr	Val	Cys	225	230	235
Thr	Ile	Val	Thr	Tyr	Gln	Met	Val	Lys	Thr	Lys	Glu	Ala	Gly	Met	Gln	245	250	255
Pro	Gln	Leu	Gln	Ile	Arg	Gly	Val	Gly	Phe	Asp	Arg	Thr	Leu	Gly	Gly	260	265	270
Leu	Glu	Met	Glu	Leu	Arg	Leu	Arg	Glu	Arg	Leu	Ala	Gly	Leu	Phe	Asn	275	280	285
Glu	Gln	Arg	Lys	Gly	Gln	Arg	Ala	Lys	Asp	Val	Arg	Glu	Asn	Pro	Arg	290	295	300
Ala	Met	Ala	Lys	Leu	Leu	Arg	Glu	Ala	Asn	Arg	Leu	Lys	Thr	Val	Leu	305	310	315
Ser	Ala	Asn	Ala	Asp	His	Met	Ala	Gln	Ile	Glu	Gly	Leu	Met	Asp	Asp	325	330	335
Val	Asp	Phe	Lys	Ala	Lys	Val	Thr	Arg	Val	Glu	Phe	Glu	Glu	Leu	Cys	340	345	350
Ala	Asp	Leu	Phe	Glu	Arg	Val	Pro	Gly	Pro	Val	Gln	Gln	Ala	Leu	Gln	355	360	365
Ser	Ala	Glu	Met	Ser	Leu	Asp	Glu	Ile	Glu	Gln	Val	Ile	Leu	Val	Gly	370	375	380
Gly	Ala	Thr	Arg	Val	Pro	Arg	Val	Gln	Glu	Val	Leu	Leu	Lys	Ala	Val	385	390	395
Gly	Lys	Glu	Glu	Leu	Gly	Lys	Asn	Ile	Asn	Ala	Asp	Glu	Ala	Ala	Ala	405	410	415
Met	Gly	Ala	Val	Tyr	Gln	Ala	Ala	Ala	Leu	Ser	Lys	Ala	Phe	Lys	Val	420	425	430
Lys	Pro	Phe	Val	Val	Arg	Asp	Ala	Val	Val	Tyr	Pro	Ile	Leu	Val	Glu	435	440	445
Phe	Thr	Arg	Glu	Val	Glu	Glu	Glu	Pro	Gly	Ile	His	Ser	Leu	Lys	His	450	455	460

Asn	Lys	Arg	Val	Leu	Phe	Ser	Arg	Met	Gly	Pro	Tyr	Pro	Gln	Arg	Lys	465	470	475	480
Val	Ile	Thr	Phe	Asn	Arg	Tyr	Ser	His	Asp	Phe	Asn	Phe	His	Ile	Asn	485	490	495	
Tyr	Gly	Asp	Leu	Gly	Phe	Leu	Gly	Pro	Glu	Asp	Leu	Arg	Val	Phe	Gly	500	505	510	
Ser	Gln	Asn	Leu	Thr	Thr	Val	Lys	Leu	Lys	Gly	Val	Gly	Asp	Ser	Phe	515	520	525	
Lys	Lys	Tyr	Pro	Asp	Tyr	Glu	Ser	Lys	Gly	Ile	Lys	Ala	His	Phe	Asn	530	535	540	
Leu	Asp	Glu	Ser	Gly	Val	Leu	Ser	Leu	Asp	Arg	Val	Glu	Ser	Val	Phe	545	550	555	560
Glu	Thr	Leu	Val	Glu	Asp	Ser	Ala	Glu	Glu	Glu	Ser	Thr	Leu	Thr	Lys	565	570	575	
Leu	Gly	Asn	Thr	Ile	Ser	Ser	Leu	Phe	Gly	Gly	Gly	Thr	Thr	Pro	Asp	580	585	590	
Ala	Lys	Glu	Asn	Gly	Thr	Asp	Thr	Val	Gln	Glu	Glu	Glu	Glu	Ser	Pro	595	600	605	
Ala	Glu	Gly	Ser	Lys	Asp	Glu	Pro	Gly	Glu	Gln	Val	Glu	Leu	Lys	Glu	610	615	620	
Glu	Ala	Glu	Ala	Pro	Val	Glu	Asp	Gly	Ser	Gln	Pro	Pro	Pro	Pro	Glu	625	630	635	640
Pro	Lys	Gly	Asp	Ala	Thr	Pro	Glu	Gly	Glu	Lys	Ala	Thr	Glu	Lys	Glu	645	650	655	
Asn	Gly	Asp	Lys	Ser	Glu	Ala	Gln	Lys	Pro	Ser	Glu	Lys	Ala	Glu	Ala	660	665	670	
Gly	Pro	Glu	Gly	Val	Ala	Pro	Ala	Pro	Glu	Gly	Glu	Lys	Lys	Gln	Lys	675	680	685	
Pro	Ala	Arg	Lys	Arg	Arg	Met	Val	Glu	Glu	Ile	Gly	Val	Glu	Leu	Val	690	695	700	
Val	Leu	Asp	Leu	Pro	Asp	Leu	Pro	Glu	Asp	Lys	Leu	Ala	Gln	Ser	Val	705	710	715	720
Gln	Lys	Leu	Gln	Asp	Leu	Thr	Leu	Arg	Asp	Leu	Glu	Lys	Gln	Glu	Arg	725	730	735	
Glu	Lys	Ala	Ala	Asn	Ser	Leu	Glu	Ala	Phe	Ile	Phe	Glu	Thr	Gln	Asp	740	745	750	
Lys	Leu	Tyr	Gln	Pro	Glu	Tyr	Gln	Glu	Val	Ser	Thr	Glu	Glu	Gln	Arg	755	760	765	

Glu Glu Ile Ser Gly Lys Leu Ser Ala Ala Ser Thr Trp Leu Glu Asp
 770 775 780
 Glu Gly Val Gly Ala Thr Thr Val Met Leu Lys Glu Lys Leu Ala Glu
 785 790 795 800
 Leu Arg Lys Leu Cys Gln Gly Leu Phe Phe Arg Val Glu Glu Arg Lys
 805 810 815
 Lys Trp Pro Glu Arg Leu Ser Ala Leu Asp Asn Leu Leu Asn His Ser
 820 825 830
 Ser Met Phe Leu Lys Gly Ala Arg Leu Ile Pro Glu Met Asp Gln Ile
 835 840 845
 Phe Thr Glu Val Glu Met Thr Thr Leu Glu Lys Val Ile Asn Glu Thr
 850 855 860
 Trp Ala Trp Lys Asn Ala Thr Leu Ala Glu Gln Ala Lys Leu Pro Ala
 865 870 875 880
 Thr Glu Lys Pro Val Leu Leu Ser Lys Asp Ile Glu Ala Lys Met Met
 885 890 895
 Ala Leu Asp Arg Glu Val Gln Tyr Leu Leu Asn Lys Ala Lys Phe Thr
 900 905 910
 Lys Pro Arg Pro Arg Pro Lys Asp Lys Asn Gly Thr Arg Ala Glu Pro
 915 920 925
 Pro Leu Asn Ala Ser Ala Ser Asp Gln Gly Glu Lys Val Ile Pro Pro
 930 935 940
 Ala Gly Gln Thr Glu Asp Ala Glu Pro Ile Ser Glu Pro Glu Lys Val
 945 950 955 960
 Glu Thr Gly Ser Glu Pro Gly Asp Thr Glu Pro Leu Glu Leu Gly Gly
 965 970 975
 Pro Gly Ala Glu Pro Glu Gln Lys Glu Gln Ser Thr Gly Gln Lys Arg
 980 985 990
 Pro Leu Lys Asn Asp Glu Leu
 995

<210> 2

<211> 13

<212> PRT

<213> Homo sapiens

<400> 2

Leu Ala Val Met Ser Val Asp Leu Gly Ser Glu Ser Met
 1 5 10

<210> 3

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 3

Cys	Leu	Ala	Val	Met	Ser	Val	Asp	Leu	Gly	Ser	Glu	Ser	Met
1				5				10					